GARDENA, CA
NEW BRUNSWICK, NJ

# Material Safety Data Sheet

| NFPA | HMIS | Personal Protective Equipment |
|---|---|---|
|  | Health Hazard 2<br>Fire Hazard 1<br>Reactivity 0 |  <br>See Section 15. |

## Section 1. Chemical Product and Company Identification



| | |
|---|---|
| **Common Name/ Trade Name** | **Propranolol HCl** |
| **Manufacturer** | SPECTRUM LABORATORY PRODUCTS INC.<br>14422 S. SAN PEDRO STREET<br>GARDENA, CA 90248 |
| **Commercial Name(s)** | Anaprilin, Avlocardyl, Berkolol, Caridorol, Deralin, DL-Anapriline, Dociton, Duranol, Inderal, Inderal hydrochloride, Inderex, Inderol, Indobloc, Naprilin, Obsidan, Oposim |
| **Synonym** | 1-[(1-Methylethyl)amino]-3-(1-naphthaleneoxy)-2-propanol hydrochloride; (+-)-Propranolol hydrochloride; (R,S)-Propranolol hydrochloride; 1-(1-Naphthyloxy)-2-hydroxy-3-isopropylaminopropane hydrochloride; 1-(Isopropylamino)-3-(1-naphthyloxy)-2-propano hydrochloride; 1-(Isopropylamino)-3-(1-naphthyloxy)propan-2-ol hydrochloride; 1-(Isopropylamino)-3-(alpha-naphthoxy)-2-propano hydrochloride;<br>1-Isopropylamino-3-(1-naphthoxy)-propan-2-ol-hydrochloride |
| **Chemical Name** | 2-Propanol,1-(isopropylamino)-3-(1-naphthyloxy)-, hydrochloride |
| **Chemical Family** | Not available. |
| **Chemical Formula** | C16H21NO2.HCl |
| **Supplier** | SPECTRUM LABORATORY PRODUCTS INC.<br>14422 S. SAN PEDRO STREET<br>GARDENA, CA 90248 |

| | |
|---|---|
| **Catalog Number(s).** | PR140 |
| **CAS#** | 318-98-9 |
| **RTECS** | UB7525000 |
| **TSCA** | TSCA 8(b) inventory: No products were found. |
| **CI#** | Not available. |

**IN CASE OF EMERGENCY**
**CHEMTREC (24hr) 800-424-9300**

CALL (310) 516-8000

## Section 2.Composition and Information on Ingredients

| | | Exposure Limits | | | |
|---|---|---|---|---|---|
| **Name** | **CAS #** | **TWA (mg/m³)** | **STEL (mg/m³)** | **CEIL (mg/m³)** | **% by Weight** |
| 1) Propranolol HCl | 318-98-9 | | | | 100 |

**Toxicological Data on Ingredients**

**Propranolol HCl**:
ORAL (LD50): Acute: 466 mg/kg [Rat]. 320 mg/kg [Mouse].

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## Section 3. Hazards Identification

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| **Potential Acute Health Effects** | Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). |
| **Potential Chronic Health Effects** | **CARCINOGENIC EFFECTS**: Not available.<br>**MUTAGENIC EFFECTS**: Not available.<br>**TERATOGENIC EFFECTS**: Not available.<br>**DEVELOPMENTAL TOXICITY**: Not available.<br>The substance may be toxic to central nervous system (CNS).<br>Repeated or prolonged exposure to the substance can produce target organs damage. |

## Section 4. First Aid Measures

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| **Eye Contact** | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs. |
| **Skin Contact** | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. |
| **Serious Skin Contact** | Not available. |
| **Inhalation** | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| **Serious Inhalation** | Not available. |
| **Ingestion** | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. |
| **Serious Ingestion** | Not available. |

## Section 5. Fire and Explosion Data

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| **Flammability of the Product** | May be combustible at high temperature. |
| **Auto-Ignition Temperature** | Not available. |
| **Flash Points** | Not available. |
| **Flammable Limits** | Not available. |
| **Products of Combustion** | These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). |
| **Fire Hazards in Presence of Various Substances** | Slightly flammable to flammable in presence of heat.<br>Non-flammable in presence of shocks. |
| **Explosion Hazards in Presence of Various Substances** | Slightly explosive in presence of open flames and sparks.<br>Non-explosive in presence of shocks. |
| **Fire Fighting Media and Instructions** | SMALL FIRE: Use DRY chemical powder.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| **Special Remarks on Fire Hazards** | When heated to decomposition it emits toxic fumes of oxides of nitrogen. As with most organic solids, fire is possible at elevated temperatures |
| **Special Remarks on Explosion Hazards** | Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard. |

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## Section 6. Accidental Release Measures

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| **Small Spill** | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| **Large Spill** | Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. |

## Section 7. Handling and Storage

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| **Precautions** | Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids. |
| **Storage** | Keep container tightly closed. Keep container in a cool, well-ventilated area. |

## Section 8. Exposure Controls/Personal Protection

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| **Engineering Controls** | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| **Personal Protection** | Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. |
| **Personal Protection in Case of a Large Spill** | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |
| **Exposure Limits** | Not available. |

## Section 9. Physical and Chemical Properties

| | | | |
|---|---|---|---|
| **Physical state and appearance** | Solid. (Solid powder.) | **Odor** | Odorless. |
| **Molecular Weight** | 295.81 g/mole | **Taste** | Bitter. |
| **pH (1% soln/water)** | Not available. | **Color** | White. |

| | |
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| **Boiling Point** | Not available. |
| **Melting Point** | 162°C (323.6°F) - 165 C |
| **Critical Temperature** | Not available. |
| **Specific Gravity** | Not available. |
| **Vapor Pressure** | Not applicable. |
| **Vapor Density** | Not available. |
| **Volatility** | Not available. |
| **Odor Threshold** | Not available. |
| **Water/Oil Dist. Coeff.** | The product is more soluble in water; log(oil/water) = -0.4 |
| **Ionicity (in Water)** | Not available. |
| **Dispersion Properties** | See solubility in water. |
| **Solubility** | Soluble in cold water.<br>Insoluble in diethyl ether.<br>Practically insoluble in benzene, and in ethyl acetate |

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## Section 10. Stability and Reactivity Data

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| **Stability** | The product is stable. |
| **Instability Temperature** | Not available. |
| **Conditions of Instability** | Excess heat, dust generation, light, incompatible materials |
| **Incompatibility with various substances** | Reactive with oxidizing agents, acids. |
| **Corrosivity** | Non-corrosive in presence of glass. |
| **Special Remarks on Reactivity** | Sensitive to light. |
| **Special Remarks on Corrosivity** | Not available. |
| **Polymerization** | Will not occur. |

## Section 11. Toxicological Information

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|---|---|
| **Routes of Entry** | Inhalation. Ingestion. |
| **Toxicity to Animals** | Acute oral toxicity (LD50): 320 mg/kg [Mouse]. |
| **Chronic Effects on Humans** | May cause damage to the following organs: central nervous system (CNS). |
| **Other Toxic Effects on Humans** | Hazardous in case of ingestion, of inhalation.<br>Slightly hazardous in case of skin contact (irritant). |
| **Special Remarks on Toxicity to Animals** | Not available. |
| **Special Remarks on Chronic Effects on Humans** | May cause adverse reproductive effects and birth defects (teratogenic) |
| **Special Remarks on other Toxic Effects on Humans** | Acute Potential Health Effects:<br>Skin: May cause skin irritation.<br>Eyes: May cause eye irritation.<br>Inhalation: May cause respiratory tract irritation.<br>Ingestion: May be harmful if ingested! Causes gastrointestinal tract irritation with nausea, and vomiting, and possibly diarrhea. May affect cardiovascular system (cardiac arrhythmias, increase in pulse rate, bradycardia, severe hypotension or hypertension, cardiac failure), skin (dermatitis), respiration (bronchiolar constriction/bronchospasm, cough, dyspnea, acute pulmonary edema, cyanosis), behavior/central nervous system/peripherial nervous system (hallucinations, insomnia, disorientation, drowsiness, convulsions, coma, somnolence, toxic psychosis, irritability, muscle weakness), brain (encephalitis).<br>Chronic Potential Health Effects:<br>Prolonged or repeated ingestion may affect metabolism (weight loss), behavior/central nervous system/peripherial nervous system (symptoms similar to that of acute ingestion), and brain |

## Section 12. Ecological Information

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| **Ecotoxicity** | Not available. |
| **BOD5 and COD** | Not available. |
| **Products of Biodegradation** | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| **Toxicity of the Products of Biodegradation** | The products of degradation are less toxic than the product itself. |
| **Special Remarks on the Products of Biodegradation** | Not available. |

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## Section 13. Disposal Considerations

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| **Waste Disposal** | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |

## Section 14. Transport Information

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| **DOT Classification** | Not a DOT controlled material (United States). |
| **Identification** | Not applicable. |
| **Special Provisions for Transport** | Not applicable. |
| **DOT (Pictograms)** |  |

## Section 15. Other Regulatory Information and Pictograms

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|---|---|
| **Federal and State Regulations** | No products were found. |
| **California Proposition 65 Warnings** | |
| **Other Regulations** | OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).<br>EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. |

**Other Classifications**

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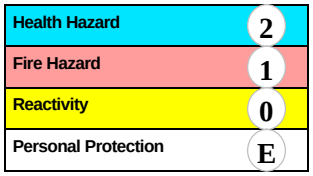
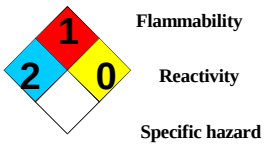
| **WHMIS (Canada)** | Not controlled under WHMIS (Canada). | |
| **DSCL (EEC)** | R22- Harmful if swallowed. | S22- Do not breathe dust.<br>S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. |

**HMIS (U.S.A.)**




**National Fire Protection Association (U.S.A.)**




**WHMIS (Canada) (Pictograms)**

**DSCL (Europe) (Pictograms)**


**TDG (Canada) (Pictograms)**

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**ADR (Europe) (Pictograms)**

**Protective Equipment**

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety glasses.

## *Section 16. Other Information*

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| **MSDS Code** | **P4717** |
| **References** | Not available. |
| **Other Special Considerations** | Not available. |

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| **Validated by Sonia Owen on 8/11/2006.** | **Verified by Sonia Owen.**<br>**Printed 9/13/2006.** |

**CALL (310) 516-8000**

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*